

## Ni-Cr-Mo Welding Electrode

### INCONEL® Welding Electrode 112

**INCONEL Welding Electrode 112** is used for shielded-metal-arc welding of INCONEL alloy 625, INCOLOY alloy 825, INCOLOY alloy 25-6MO, and other molybdenum-containing stainless steels. It is also used for surfacing of steel and for welding various corrosion-resistant alloys such as alloy 20. The weld metal has high strength at room and elevated temperatures and has exceptional corrosion resistance, including resistance to pitting, crevice corrosion, and polythionic acid stress-corrosion cracking. INCONEL Welding Electrode 112 is useful for many dissimilar joints involving INCONEL alloys, INCOLOY alloys, stainless steels, low-alloy steels, and carbon steels.

The electrodes provide excellent operability for groove and fillet welding in the downhand position and the smaller diameter electrodes are also suitable for all position welding. Power supply: direct current, electrode positive.

#### Specifications

AWS A5.11 ENiCrMo-3 (UNS W86112)  
ASME II, Part C, SFA-5.11, ENiCrMo-3 (UNS W86112)  
ASME IX, F-No.43  
\*DIN 1736 EL-NiCr20Mo9Nb (2.4621)  
\*(EN) ISO 14172 – ENi6625 (NiCr22Mo9Nb)  
\*Supply to these specifications available upon request  
For manufacture to ASME III (NCA3800, NB2400), MIL and other specifications please refer your inquiry to the Technical Department prior to order placement.

#### Approvals

Canadian Welding Bureau  
VdTUV 4450.00  
Other approvals may be applicable. Please confirm details of current scope of approvals with the Technical Department prior to order placement.

Limiting Chemical Composition	Ni+Co .....		Si .....	
	C .....	55.0 min.	Cr .....	0.75 max.
Mn .....	0.10 max.	Nb+Ta .....	20.0-23.0	
Fe .....	1.0 max.	Mo .....	3.15-4.15	
S .....	7.0 max.	P .....	8.0-10.0	
Cu .....	0.02 max.	Others .....	0.03 max.	
	0.50 max.		0.50 max.	

Minimum Mechanical Properties	Tensile Strength, psi		110,000
		MPa	758
	Elongation, (4d) %	30	

#### Available Product Forms – Supplied in 10lbs (4.54kg) hermetically sealed containers

Diameter	mm	2.4	3.2	4.0	
Length	mm	229	356	356	
Current (DC+)	A	40-65	65-90	90-125	

Rod Diam.	4.54 kg Pack
2.4mm	SME11224
3.2mm	SME11232
4.0mm	SME11240

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